

#### ABSTRACT OF THE DISCLOSURE

An organic semiconductor device includes an organic semiconductor layer with carrier mobility which is deposited between a pair of electrodes facing each other. At least one of the electrodes includes a carrier relay layer which is in contact with the organic semiconductor layer and has a work function close or equal to an ionized potential of the organic semiconductor layer, and a conductive layer which is formed on the carrier relay layer and has lower resistivity than the carrier relay layer.